

=> d his ful

(FILE 'HOME' ENTERED AT 13:23:31 ON 19 JUL 2006)

FILE 'HCAPLUS' ENTERED AT 13:23:38 ON 19 JUL 2006

E ISHIMA MASAHIRO/AU
L1 2 SEA ABB=ON ("ISHIMA M"/AU OR "ISHIMA MASAHIRO"/AU)
E YOSHIDA TSUTOMU/AU
L2 330 SEA ABB=ON ("YOSHIDA TSUTOMI"/AU OR "YOSHIDA TSUTOMU"/AU)
E YAMAZAKI TAKAJUKI/AU
E YAMAZAKI TAKAYUKI/AU
L3 50 SEA ABB=ON "YAMAZAKI TAKAYUKI"/AU
E SUGAWARA FUMIO/AU
L4 214 SEA ABB=ON "SUGAWARA FUMIO"/AU
E HATTA KIYOSHIGE/AU
L5 1 SEA ABB=ON "HATTA KIYOSHIGE"/AU
E SHIMOJOE MANABU/AU
L6 1 SEA ABB=ON "SHIMOJOE MANABU"/AU
E MASAKI KAZUYOSHI/AU
L7 21 SEA ABB=ON "MASAKI KAZUYOSHI"/AU
L8 1 SEA ABB=ON L1 AND L2 AND L3 AND L4 AND L5 AND L6 AND L7
L9 580 SEA ABB=ON L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7
L10 2 SEA ABB=ON L9 AND ?ANTIVIRAL?
SELECT RN L10 1-2

FILE 'REGISTRY' ENTERED AT 13:29:06 ON 19 JUL 2006

L11 7 SEA ABB=ON (445377-25-3/BI OR 445377-26-4/BI OR 445377-27-5/BI
OR 445377-28-6/BI OR 445377-29-7/BI OR 445377-30-0/BI OR
9012-90-2/BI)

FILE 'HCAPLUS' ENTERED AT 13:29:12 ON 19 JUL 2006

L12 2 SEA ABB=ON L10 AND L11
L13 ANALYZE L12 1-2 CT : 13 TERMS

FILE 'REGISTRY' ENTERED AT 13:56:48 ON 19 JUL 2006

L14 3 SEA ABB=ON (445377-25-3 OR 445377-26-4 OR 445377-27-5)/RN

FILE 'HCAPLUS' ENTERED AT 13:57:30 ON 19 JUL 2006

L15 1 SEA ABB=ON L14 *1 cit from CA Plus*

FILE 'MEDLINE, BIOSIS, EMBASE, JAPIO, JICST-EPLUS, WPIDS' ENTERED AT
13:58:06 ON 19 JUL 2006

L16 0 SEA ABB=ON L15

FILE 'USPATFULL' ENTERED AT 13:58:19 ON 19 JUL 2006

L17 1 SEA ABB=ON L14 *1 cit from US Patfull*

FILE HOME

FILE HCAPLUS

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FILE COVERS 1907 - 19 Jul 2006 VOL 145 ISS 4
FILE LAST UPDATED: 18 Jul 2006 (20060718/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 JUL 2006 HIGHEST RN 894196-03-3
DICTIONARY FILE UPDATES: 18 JUL 2006 HIGHEST RN 894196-03-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

FILE MEDLINE

FILE LAST UPDATED: 18 JUL 2006 (20060718/UP). FILE COVERS 1950 TO DATE.

On December 11, 2005, the 2006 MeSH terms were loaded.

The MEDLINE reload for 2006 is now (26 Feb.) available. For details on the 2006 reload, enter HELP RLOAD at an arrow prompt (=>).

See also:

<http://www.nlm.nih.gov/mesh/>
http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_med_data_changes.html
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_2006_MeSH.html

OLDMEDLINE is covered back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2006 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNS) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 12 July 2006 (20060712/ED)

FILE EMBASE

FILE COVERS 1974 TO 19 Jul 2006 (20060719/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

EMBASE is now updated daily. SDI frequency remains weekly (default) and biweekly.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE JAPIO

FILE LAST UPDATED: 3 APR 2006 <20060403/UP>

FILE COVERS APRIL 1973 TO DECEMBER 22, 2005

>>> GRAPHIC IMAGES AVAILABLE <<<

>>> NEW IPC8 DATA AND FUNCTIONALITY NOT YET AVAILABLE IN THIS FILE.
USE IPC7 FORMAT FOR SEARCHING THE IPC. WATCH THIS SPACE FOR FURTHER
DEVELOPMENTS AND SEE OUR NEWS SECTION FOR FURTHER INFORMATION
ABOUT THE IPC REFORM <<<

FILE JICST-EPLUS

FILE COVERS 1985 TO 18 JUL 2006 (20060718/ED)

THE JICST-EPLUS FILE HAS BEEN RELOADED TO REFLECT THE 1999 CONTROLLED
TERM (/CT) THESAURUS RELOAD.

FILE WPIDS

FILE LAST UPDATED: 14 JUL 2006 <20060714/UP>

MOST RECENT DERWENT UPDATE: 200645 <200645/DW>

DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,
PLEASE VISIT:
http://www.stn-international.de/training_center/patents/stn_guide.pdf <>>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE
<http://scientific.thomson.com/support/patents/coverage/latestupdates/>>>> PLEASE BE AWARE OF THE NEW IPC REFORM IN 2006, SEE
http://www.stn-international.de/stndatabases/details/ipc_reform.html and
<http://scientific.thomson.com/media/scpdf/ipcrdwpf.pdf> <<<>>> FOR FURTHER DETAILS ON THE FORTHCOMING DERWENT WORLD PATENTS
INDEX ENHANCEMENTS PLEASE VISIT:
http://www.stn-international.de/stndatabases/details/dwpi_r.html <<<

FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 18 Jul 2006 (20060718/PD)

FILE LAST UPDATED: 18 Jul 2006 (20060718/ED)

HIGHEST GRANTED PATENT NUMBER: US7080410

HIGHEST APPLICATION PUBLICATION NUMBER: US2006156447

CA INDEXING IS CURRENT THROUGH 18 Jul 2006 (20060718/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 18 Jul 2006 (20060718/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2006

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2006

=> d 114 1-3

L14 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2006 ACS on STN

RN 445377-27-5 REGISTRY

ED Entered STN: 29 Aug 2002

CN Isoleucine, N-(3-hydroxy-1-oxo-5-dodecenyl)leucyl- α -glutamylglutamylvalylleucylglutamylserylvalylleucylleucylglutamylleucylglutamyl-, (14 \rightarrow 7)-lactone (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Peptide R2MA026

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C86 H148 N18 O23

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

SK. V

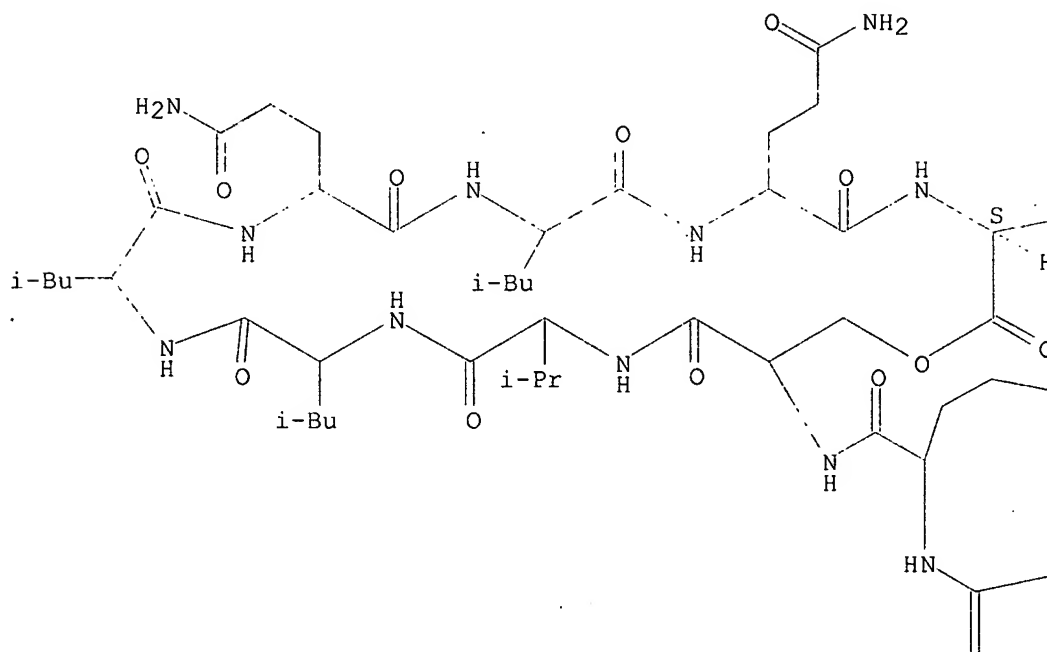
RELATED SEQUENCES AVAILABLE WITH SEQLINK

Relative stereochemistry.

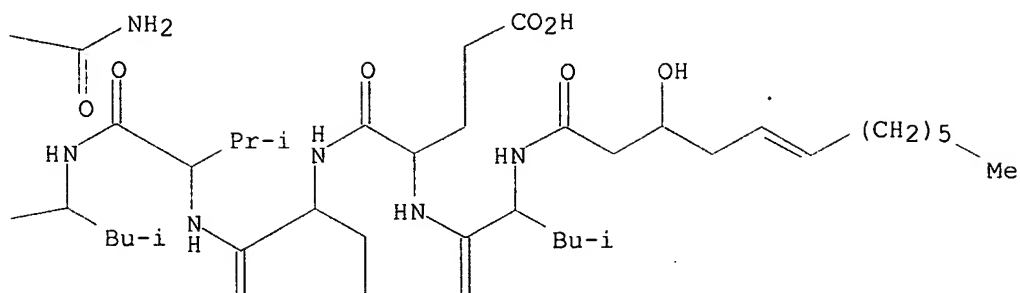
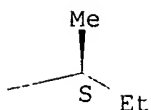
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Currently available stereo shown.

PAGE 1-A



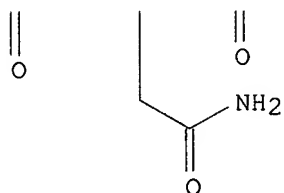
PAGE 1-B



PAGE 2-A



PAGE 2-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ED Entered STN: 29 Aug 2002

L14 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2006 ACS on STN

RN 445377-26-4 REGISTRY

ED Entered STN: 29 Aug 2002

CN Leucine, N-(3-hydroxy-1-oxodecyl)leucyl- α -
 glutamylglutaminylvalylleucylglutaminylserylvalylvalylleucylglutaminylleuc
 ylglutaminyl-, (14 \rightarrow 7)-lactone (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Peptide R1MA026

FS PROTEIN SEQUENCE; STEREOSEARCH

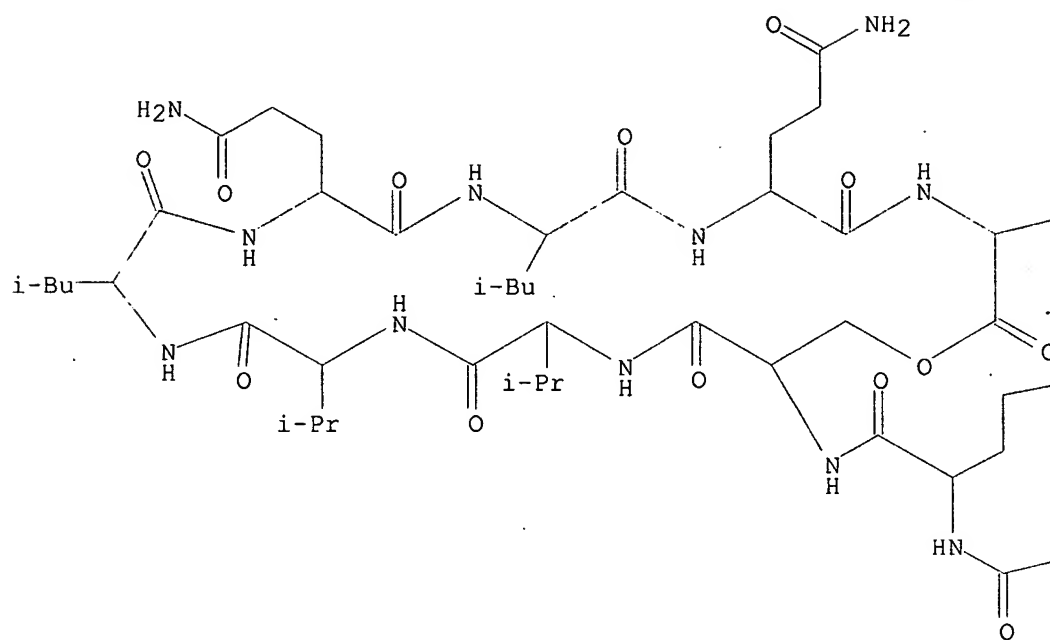
MF C83 H144 N18 O23

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

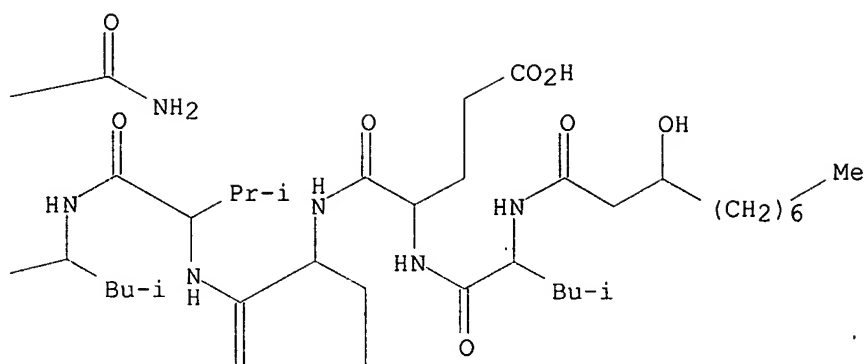
Currently available stereo shown.

PAGE 1-A

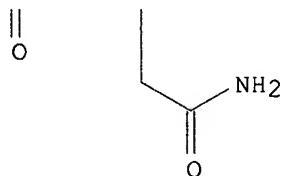


PAGE 1-B

— Bu-i



PAGE 2-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ED Entered STN: 29 Aug 2002

L14 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2006 ACS on STN

RN 445377-25-3 REGISTRY

ED Entered STN: 29 Aug 2002

CN Isoleucine, N-(3-hydroxy-1-oxodecyl)leucyl- α -
 glutamylglutaminyllvalylleucylglutaminyllserylvalylleucylleucylglutaminyllleu
 cylglutaminyll-, (14 \rightarrow 7)-lactone (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Peptide MA026

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C84 H146 N18 O23

SR CA

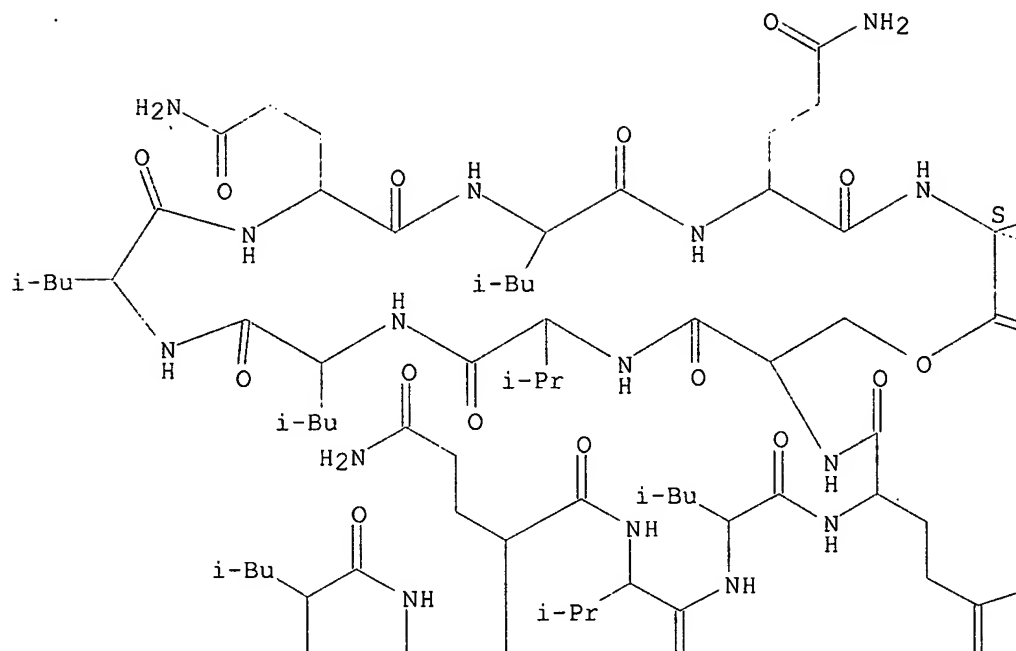
LC STN Files: CA, CAPLUS, USPATFULL

RELATED SEQUENCES AVAILABLE WITH SEQLINK

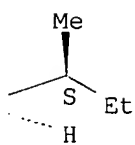
SM.I

Relative stereochemistry.
Currently available stereo shown.

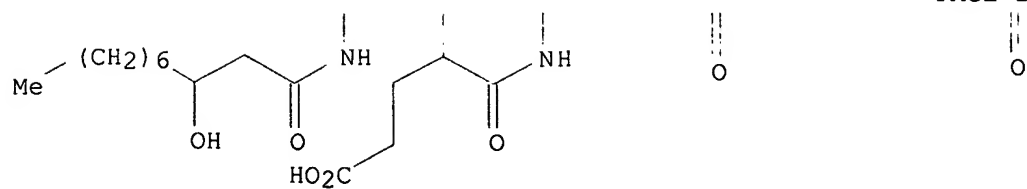
PAGE 1-A



PAGE 1-B



PAGE 2-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ED Entered STN: 29 Aug 2002

CA Plus

=> d que stat 115

L14 3 SEA FILE=REGISTRY ABB=ON (445377-25-3 OR 445377-26-4 OR 445377-27-5)/RN

L15 1 SEA FILE=HCAPLUS ABB=ON L14

=> d ibib abs hitstr 115 1-1

L15 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:615653 HCAPLUS

DOCUMENT NUMBER: 137:153941

TITLE: Antiviral peptides manufacture with Pseudomonas and their derivatives

INVENTOR(S): Ishima, Masahiro; Yoshida, Tsutomu; Yamazaki, Takayuki; Sugawara, Fumio; Hatta, Kiyoshige; Shimojoe, Manabu; Masaki, Kazuyoshi

PATENT ASSIGNEE(S): Toyo Suisan Kaisha, Ltd., Japan

SOURCE: PCT Int. Appl., 118 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002062831	A1	20020815	WO 2002-JP1039	20020207
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1369426	A1	20031210	EP 2002-711381	20020207
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004102605	A1	20040527	US 2003-632949	20030731
PRIORITY APPLN. INFO.: JP 2001-32729 A 20010208				
WO 2002-JP1039 W 20020207				

AB The antiviral peptides or depsipeptides, MA026 and R1MA026 and R2MA026, are manufactured with Pseudomonas. The antiviral peptides or depsipeptides, and their derivs. AL-MA026 (lower alkyl derivs. of the MA026) and BTI-MA026 and BTI-base MA026 are useful for control of pathogenic virus, especially fish pathogenic virus. Fermentation of the antiviral peptides with Pseudomonas, chemical preparation of their derivs., and their application to control fish pathogenic virus were shown. Also given was the amino acid composition of these antiviral peptides, depsipeptides, and derivs.

IT 445377-25-3P, Peptide MA026 445377-26-4P, Peptide

R1MA026 445377-27-5P, Peptide R2MA026

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

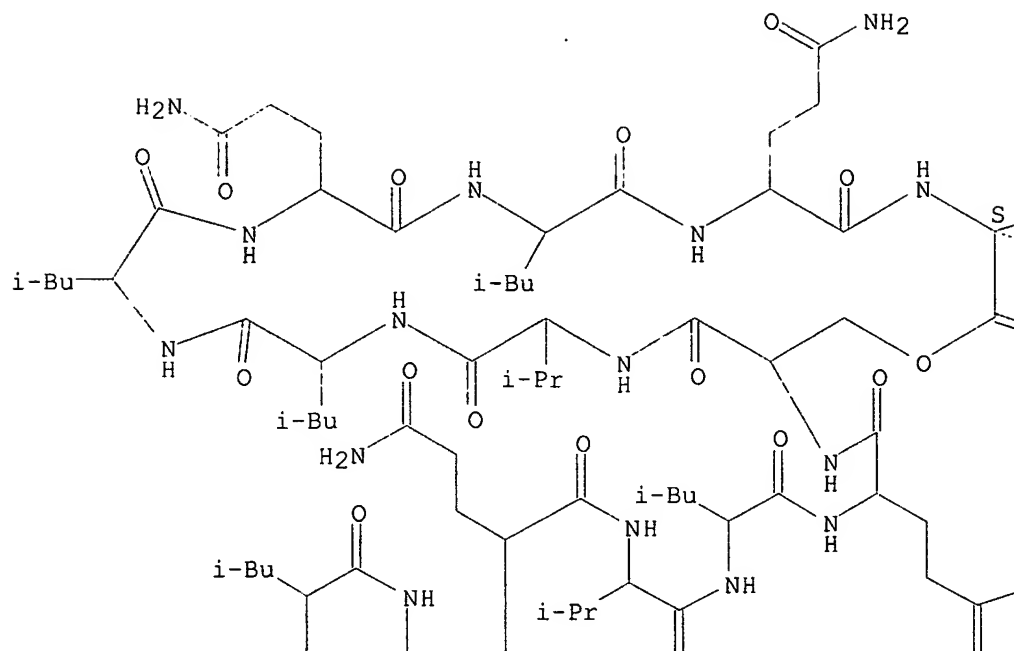
(antiviral peptides manufacture with Pseudomonas and derivs.)

RN 445377-25-3 HCAPLUS

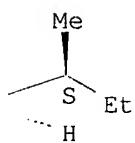
CN Isoleucine, N-(3-hydroxy-1-oxodecyl)leucyl- α -glutamylglutaminylvalylleucylglutaminylserylvalylleucylleucylglutaminylleucylglutaminyl-, (14 \rightarrow 7)-lactone (9CI) (CA INDEX NAME)

Relative stereochemistry.
Currently available stereo shown.

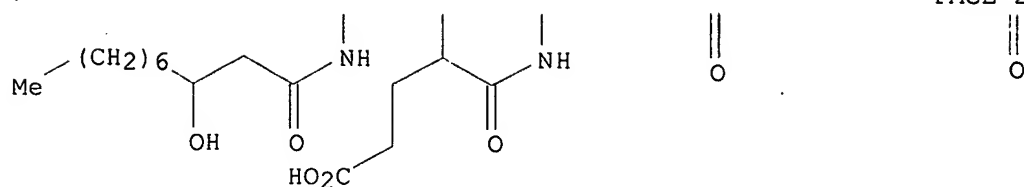
PAGE 1-A



PAGE 1-B



PAGE 2-A

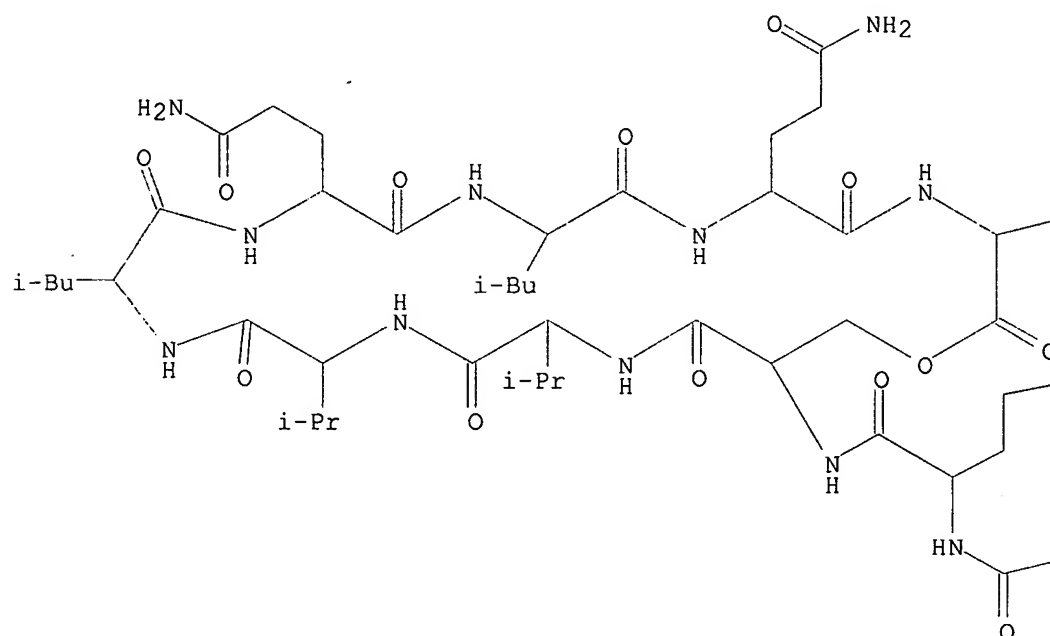


RN 445377-26-4 HCAPLUS

CN Leucine, N-(3-hydroxy-1-oxodecyl)leucyl- α -
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 ylglutaminyl-, (14 \rightarrow 7)-lactone (9CI) (CA INDEX NAME)

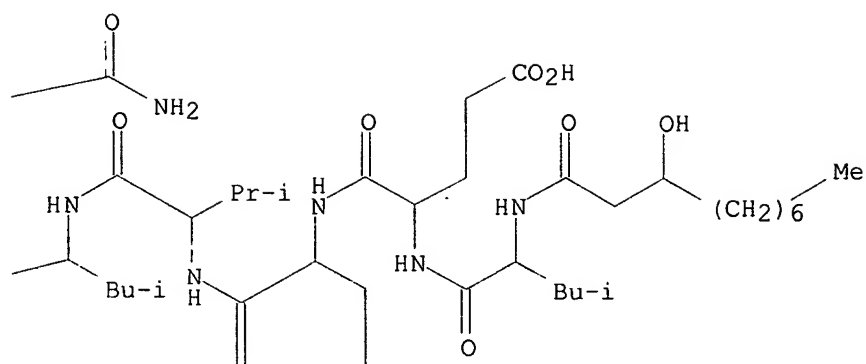
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PAGE 1-A

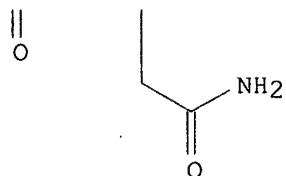


PAGE 1-B

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PAGE 2-B



RN 445377-27-5 HCAPLUS

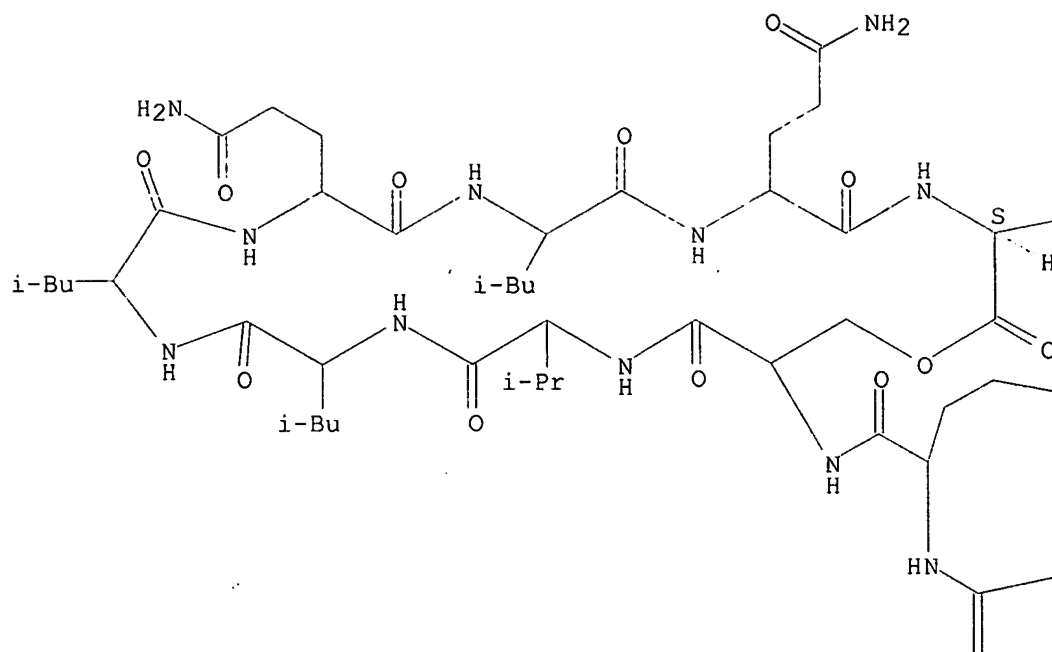
CN Isoleucine, N-(3-hydroxy-1-oxo-5-dodecenyl)leucyl- α -
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Relative stereochemistry.

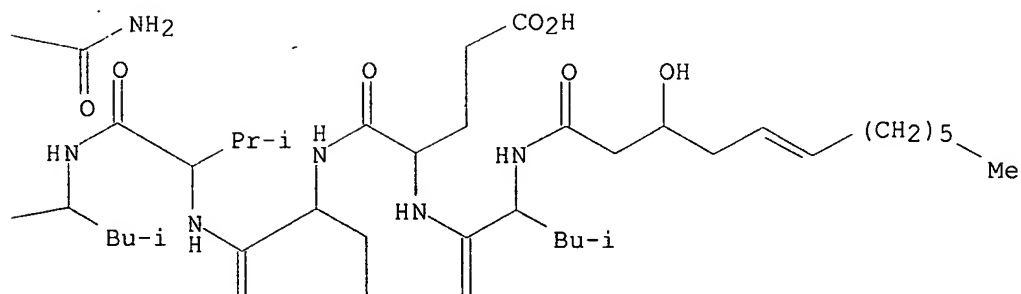
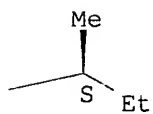
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Currently available stereo shown.

PAGE 1-A



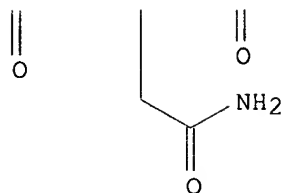
PAGE 1-B



PAGE 2-A



PAGE 2-B



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Le Spatfull

=> d que stat l17

L14 3 SEA FILE=REGISTRY ABB=ON (445377-25-3 OR 445377-26-4 OR
445377-27-5)/RN

L17 1 SEA FILE=USPATFULL ABB=ON L14

=> d ibib abs hitstr l17 1-1

L17 ANSWER 1 OF 1 USPATFULL on STN

ACCESSION NUMBER: 2004:134068 USPATFULL

TITLE: Novel peptides, derivatives thereof, process for
producing the same, novel strain producing the same,
and antiviral agent comprising the same as active
ingredientINVENTOR(S): Ishima, Masahiro, Funabashi-shi, JAPAN
Yoshida, Tsutomu, Sagamihara-shi, JAPAN
Yamazaki, Takayuki, Noda-shi, JAPAN
Sugawara, Fumio, Niiza-shi, JAPAN
Hatta, Kiyoshige, Ebetsu-shi, JAPAN
Shimojoe, Manabu, Saitama-shi, JAPAN
Masaki, Kazuyoshi, Sakado-shi, JAPANPATENT ASSIGNEE(S): TOYO SUISAN KAISHA, LTD., Tokyo, JAPAN (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004102605	A1	20040527
APPLICATION INFO.:	US 2003-632949	A1	20030731 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 2002-JP1039, filed on 7 Feb 2002, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2001-32729	20010208
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FRISHAUF, HOLTZ, GOODMAN & CHICK, PC, 767 THIRD AVENUE, 25TH FLOOR, NEW YORK, NY, 10017-2023	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	42 Drawing Page(s)	
LINE COUNT:	1693	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Peptides having, as constitutive amino acids, (1) 4 glutamine residues, 1 glutamic acid residue, 1 serine residue, 2 valine residues, 1 isoleucine residue and 5 leucine residues, and having a 3-hydroxydecanoyl group bonded, via an amide linkage, to the N-terminal leucine residue thereof; (2) 4 glutamine residues, 1 glutamic acid residue, 1 serine residue, 3 valine residues, and 5 leucine residues, and having a 3-hydroxydecanoyl group bonded, via an amide linkage, to the N-terminal leucine residue thereof; or (3) 4 glutamine residues, 1 glutamic acid residue, 1 serine residue, 2 valine residues, 1 isoleucine residue and 5 leucine residues, and having a 3-hydroxydodec-5-enoyl group bonded, via an amide linkage, to the N-terminal leucine residue thereof. The peptides have an antiviral activity. A strain capable of producing the above peptides and belonging to a new species of genus *Pseudomonas*.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

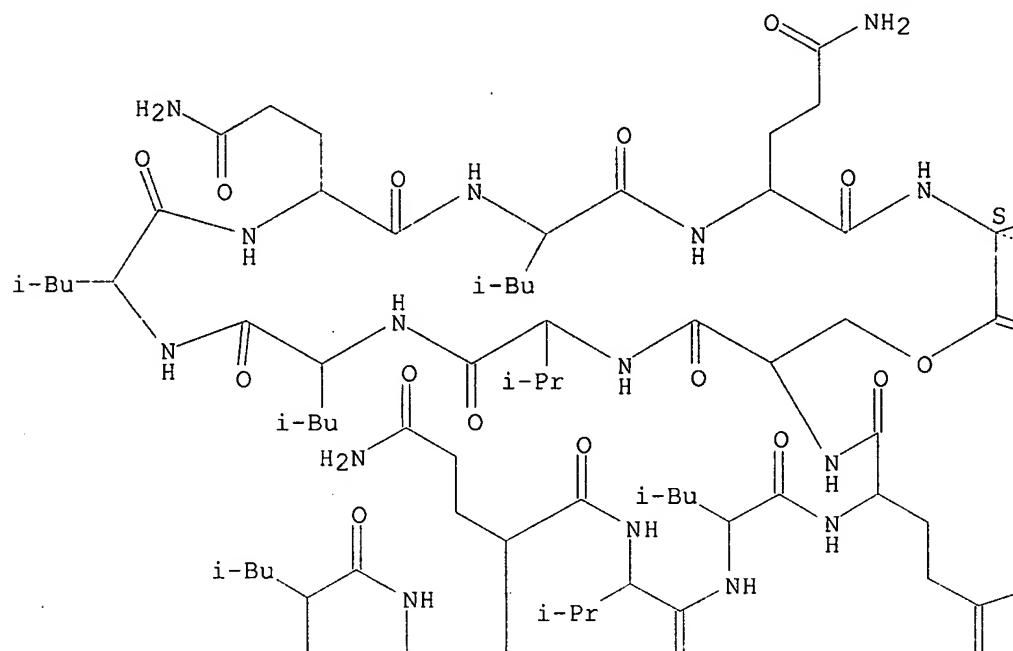
IT 445377-25-3P, Peptide MA026 445377-26-4P, Peptide
R1MA026 445377-27-5P, Peptide R2MA026

(antiviral peptides manufacture with Pseudomonas and derivs.)

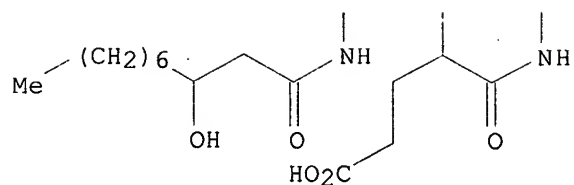
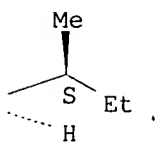
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CN Isoleucine, N-(3-hydroxy-1-oxodecyl)leucyl- α -
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Currently available stereo shown.

PAGE 1-A



PAGE 1-B



PAGE 2-A



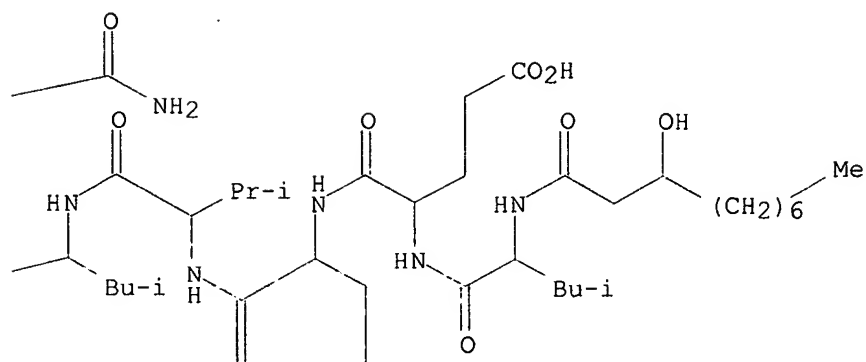
RN 445377-26-4 USPATFULL

CN Leucine, N-(3-hydroxy-1-oxodecyl)leucyl- α -
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 ucyglutaminyll-, (14 \rightarrow 7)-lactone (9CI) (CA INDEX NAME)

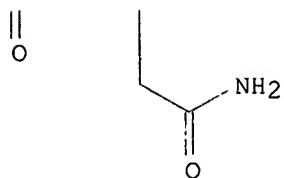
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PAGE 1-B

— Bu-i



PAGE 2-B

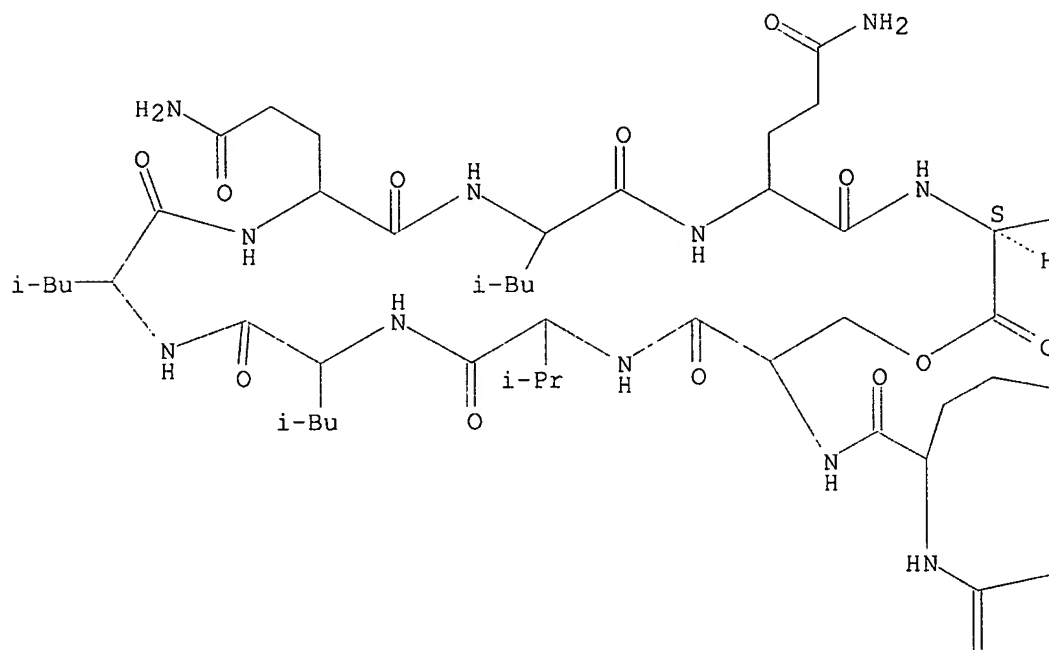


RN 445377-27-5 USPATFULL

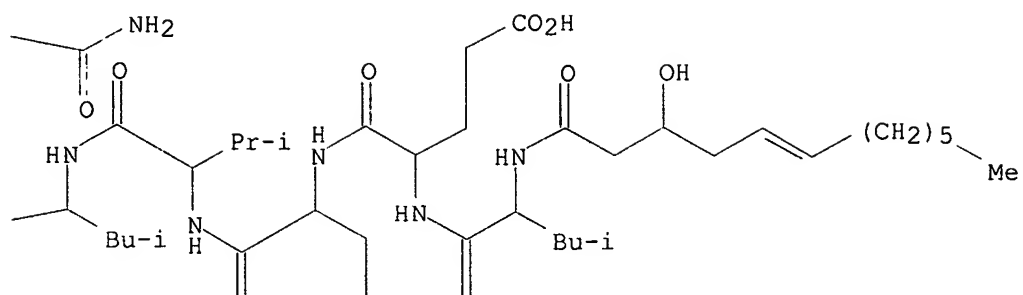
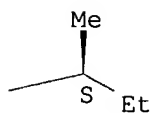
CN Isoleucine, N-(3-hydroxy-1-oxo-5-dodecenyl)leucyl- α -
 glutamylglutaminylvalylleucylglutaminylserylvalylleucylleucylglutaminyl
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Relative stereochemistry.
 Double bond geometry unknown.
 Currently available stereo shown.

PAGE 1-A



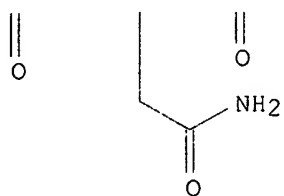
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PAGE 2-A



PAGE 2-B



=> d ibib abs hitstr 112 1-2

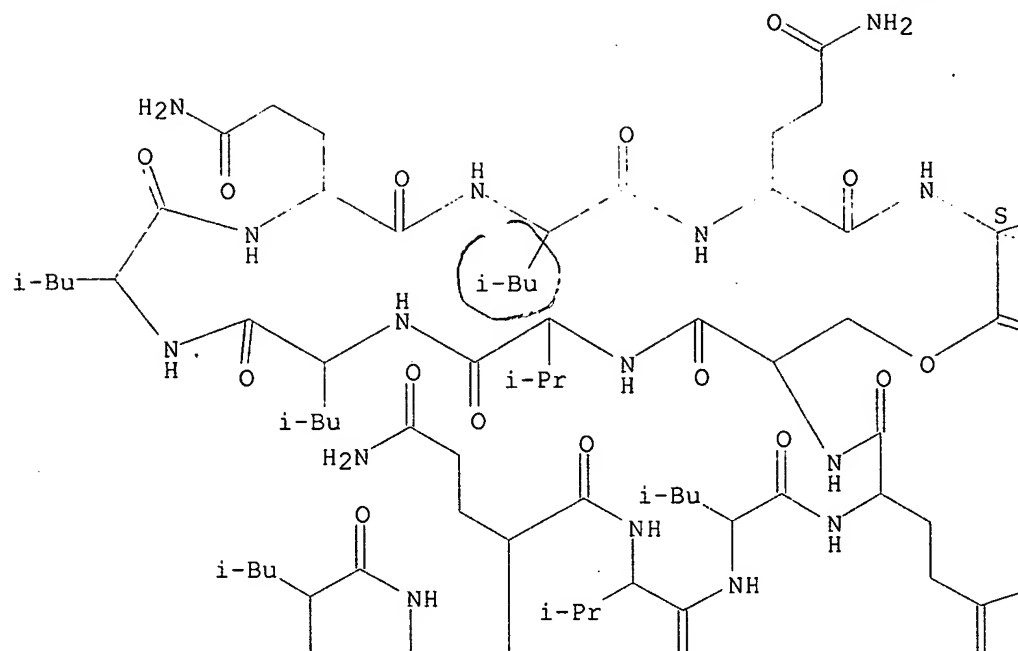
L12 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:615653 HCAPLUS
DOCUMENT NUMBER: 137:153941
TITLE: Antiviral peptides manufacture with
Pseudomonas and their derivatives
INVENTOR(S): Ishima, Masahiro; Yoshida, Tsutomu
; Yamazaki, Takayuki; Sugawara,
Fumio; Hatta, Kiyoshige; Shimojoe,
Manabu; Masaki, Kazuyoshi
PATENT ASSIGNEE(S): Toyo Suisan Kaisha, Ltd., Japan
SOURCE: PCT Int. Appl., 118 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2002062831	A1	20020815	WO 2002-JP1039	20020207
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,				
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,				
UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,				
TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,				
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BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1369426	A1	20031210	EP 2002-711381	20020207
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004102605	A1	20040527	US 2003-632949	20030731
PRIORITY APPLN. INFO.:			JP 2001-32729	A 20010208
			WO 2002-JP1039	W 20020207
AB	The antiviral peptides or depsipeptides, MA026 and R1MA026 and R2MA026, are manufactured with Pseudomonas. The antiviral peptides or depsipeptides, and their derivs. AL-MA026 (lower alkyl derivs. of the MA026) and BTI-MA026 and BTI-base MA026 are useful for control of pathogenic virus, especially fish pathogenic virus. Fermentation of the antiviral peptides with Pseudomonas, chemical preparation of their derivs., and their application to control fish pathogenic virus were shown. Also given was the amino acid composition of these antiviral peptides, depsipeptides, and derivs.			
IT	445377-25-3P, Peptide MA026 445377-26-4P, Peptide R1MA026 445377-27-5P, Peptide R2MA026 RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (antiviral peptides manufacture with Pseudomonas and derivs.)			
RN	445377-25-3 HCAPLUS			
CN	Isoleucine, N-(3-hydroxy-1-oxodecyl)leucyl- α -glutamylglutaminylvalylleucylglutaminylserylvalylleucylleucylglutaminylleucylglutaminyl-, (14 \rightarrow 7)-lactone (9CI) (CA INDEX NAME)			

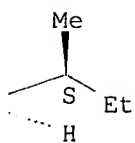
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Currently available stereo shown.

Sh.I

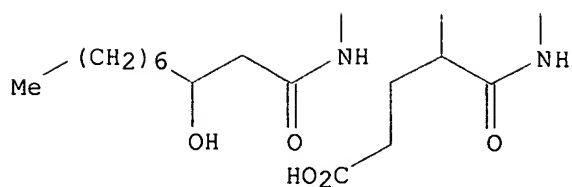
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PAGE 1-B



PAGE 2-A



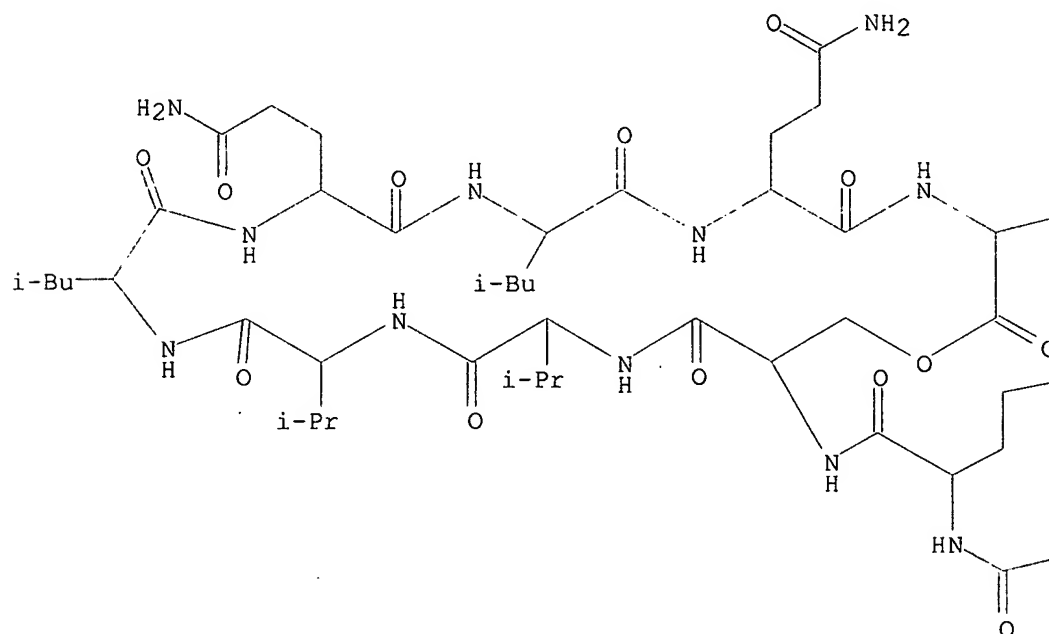
Sk. IV

RN 445377-26-4 HCAPLUS

CN Leucine, N-(3-hydroxy-1-oxodecyl)leucyl- α -
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ylglutaminyl-, (14 \rightarrow 7)-lactone (9CI) (CA INDEX NAME)

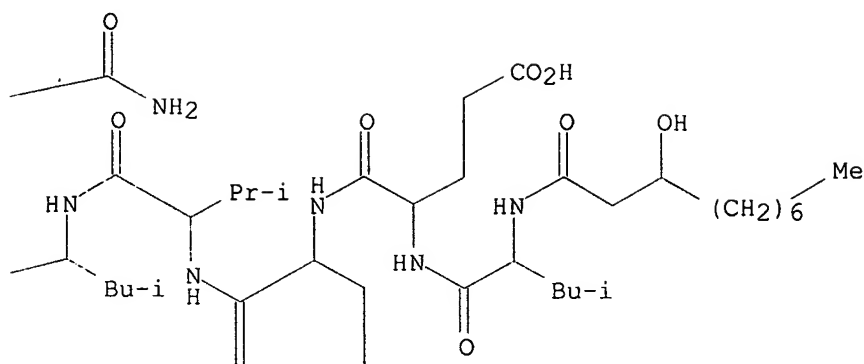
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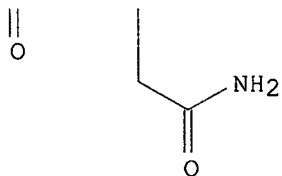


PAGE 1-B

— Bu-i



PAGE 2-B



RN 445377-27-5 HCAPLUS

CN Isoleucine, N-(3-hydroxy-1-oxo-5-dodecenyl)leucyl- α -
glutamylglutaminylvalylleucylglutaminylserylvalylleucylleucylglutaminylleu-
cylglutaminyl-, (14 \rightarrow 7)-lactone (9CI) (CA INDEX NAME)

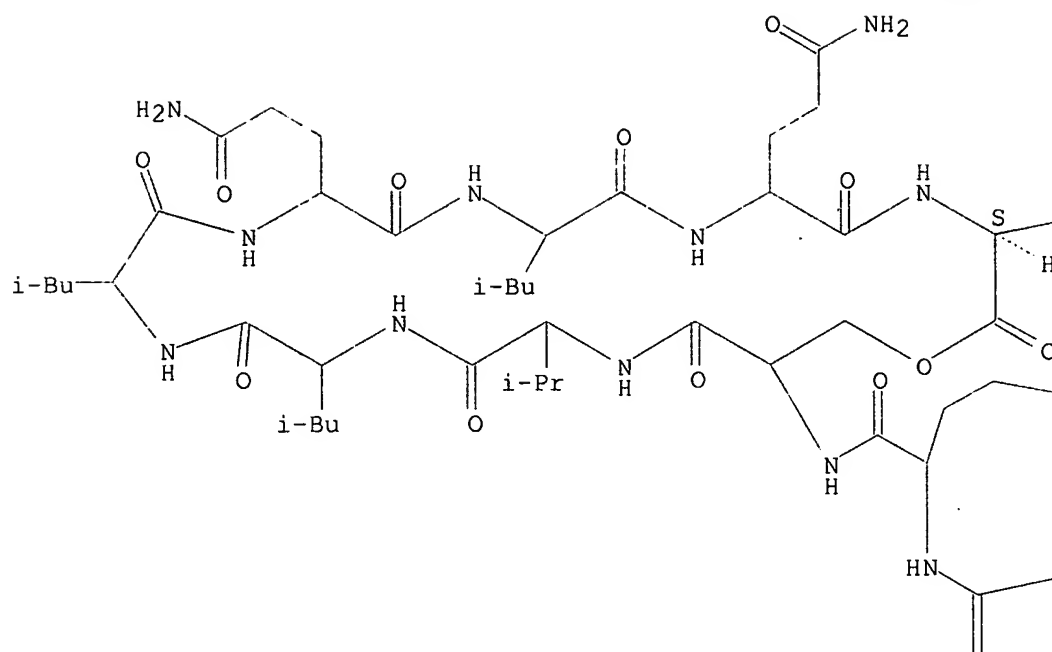
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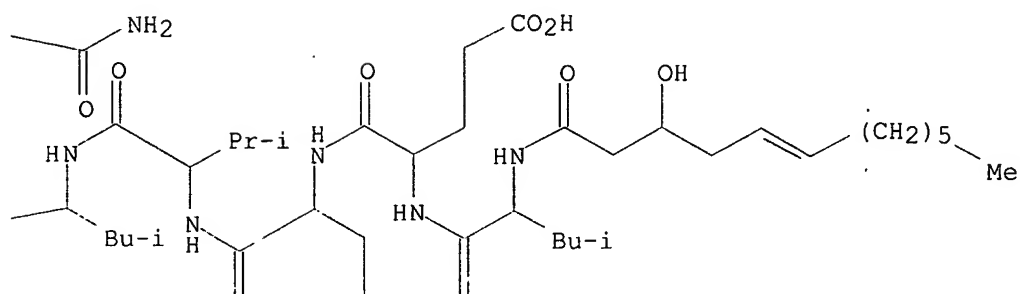
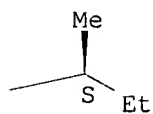
Currently available stereo shown.

SK. I.

PAGE 1-A



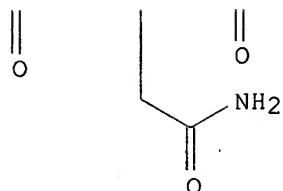
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PAGE 2-A



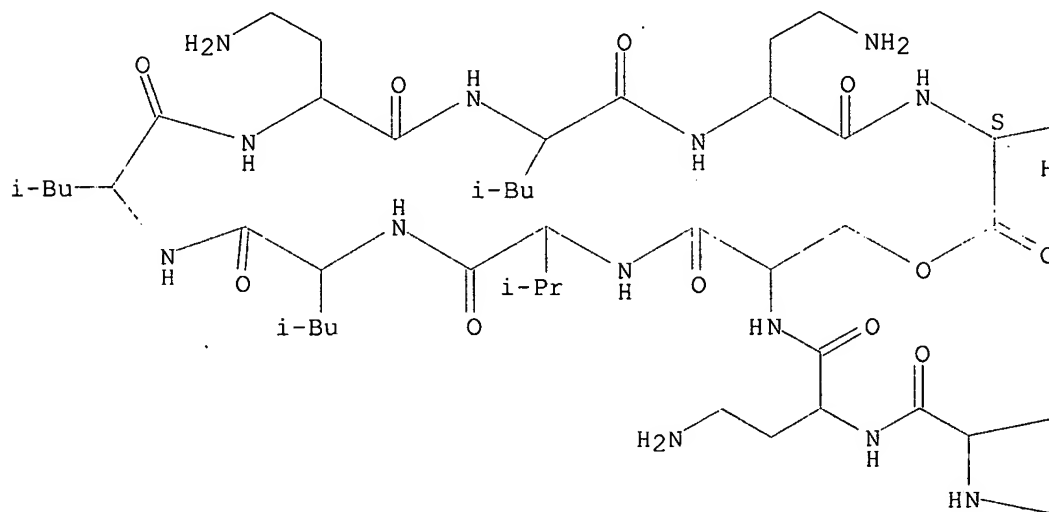
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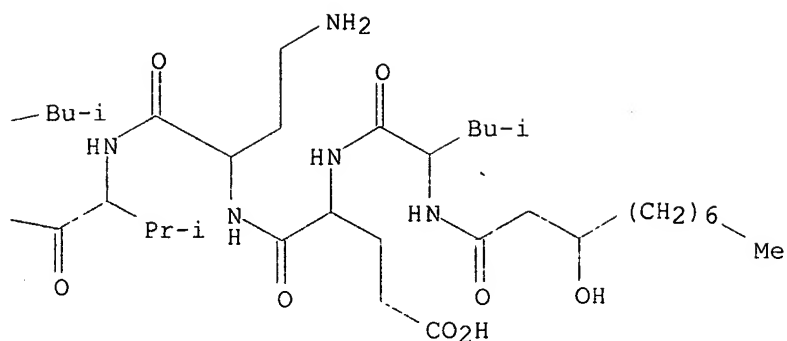


IT 445377-28-6P, Peptide BTI-MA026 445377-29-7P, Peptide
BTI-bass MA026 445377-30-0P, Peptide AL-MA026
RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(antiviral peptides manufacture with Pseudomonas and derivs.)
RN 445377-28-6 HCAPLUS
CN Isoleucine, N-(3-hydroxy-1-oxodecyl)leucyl- α -glutamyl-2,4-
diaminobutanoylvalylleucyl-2,4-diaminobutanoylserylvalylleucylleucyl-2,4-
diaminobutanoylleucyl-2,4-diaminobutanoyl-, (14 \rightarrow 7)-lactone (9CI)
(CA INDEX NAME)

Relative stereochemistry.
Currently available stereo shown.

PAGE 1-A

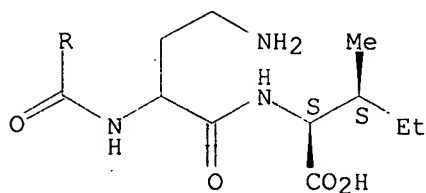
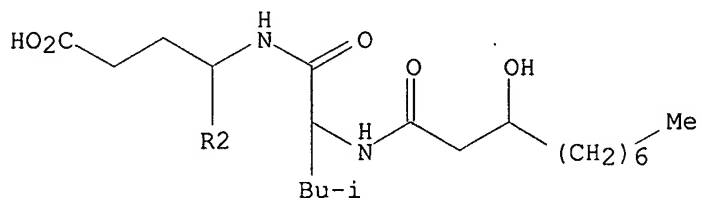




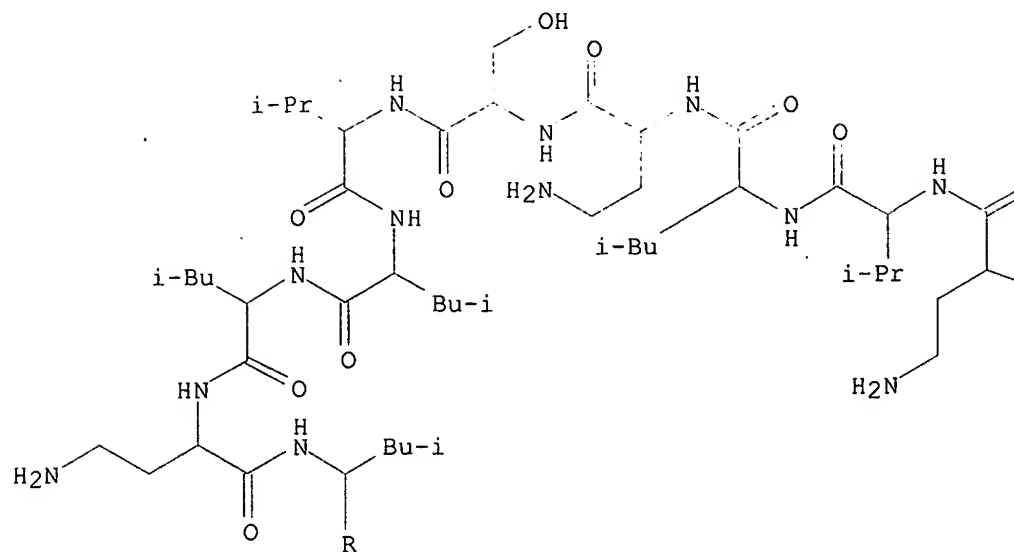
CN Isoleucine, N-(3-hydroxy-1-oxodecyl)leucyl- α -glutamyl-2,4-diaminobutanoylvalylleucyl-2,4-diaminobutanoylserylvalylleucylleucyl-2,4-diaminobutanoylleucyl-2,4-diaminobutanoyl- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Currently available stereo shown.

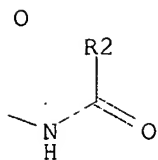
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PAGE 2-A



PAGE 2-B



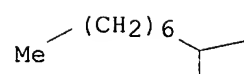
RN 445377-30-0 HCAPLUS

CN Isoleucine, N-(3-hydroxy-1-oxodecyl)leucyl- α -
 glutamylglutaminylvalylleucylglutaminylserylvalylleucylleucylglutaminylleu-
 cylglutaminyll-, (14 \rightarrow 7)-lactone, 2-methyl ester (9CI) (CA INDEX
 NAME)

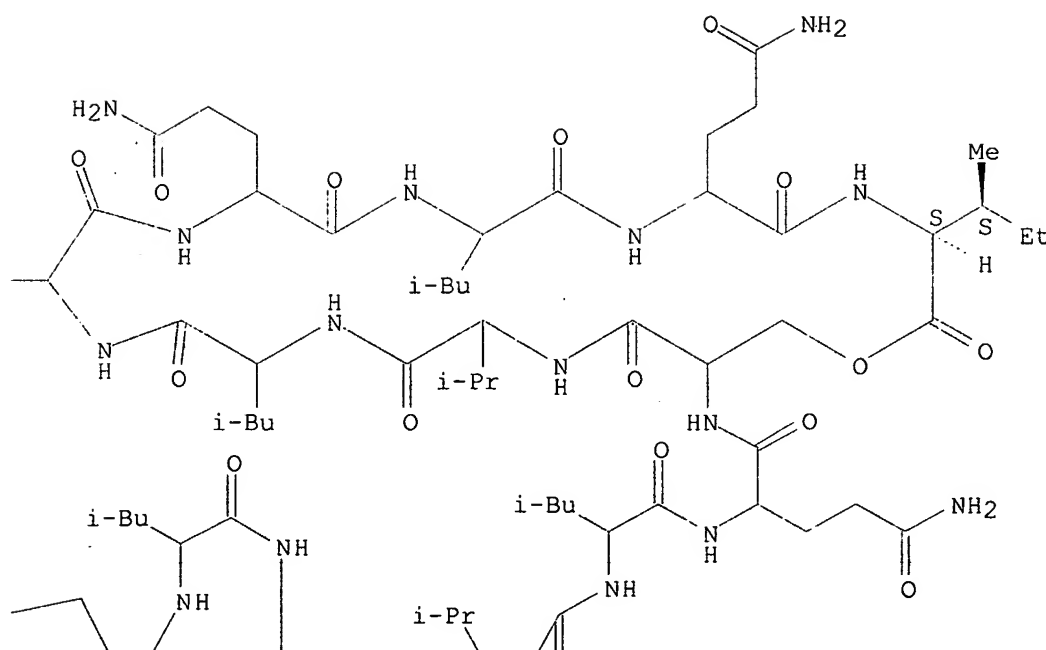
Relative stereochemistry.
 Currently available stereo shown.

PAGE 1-A

i-Bu—



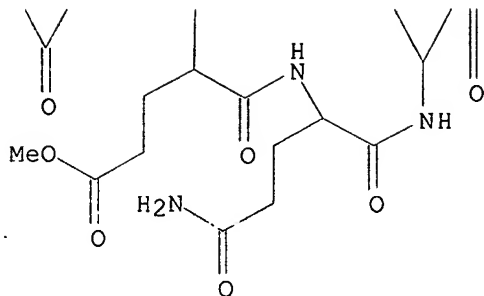
PAGE 1-B



PAGE 2-A

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PAGE 2-B



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:313212 HCAPLUS

DOCUMENT NUMBER: 131:99064

TITLE: Screening of natural products that selectively inhibit the activity of eukaryotic DNA polymerases

AUTHOR(S): Mizushina, Yoshiyuki; Hanashima, Sinya; Sakaguchi, Kengo; Sugawara, Fumio; Ohta, Keisuke

CORPORATE SOURCE: Faculty of Science and Technol., Science Univ. of Tokyo, Japan

SOURCE: Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1998), 40th, 493-498

CODEN: TYKYDS

PUBLISHER: Nippon Kagakkai

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Japanese

AB A review with 10 refs. We have been studying structure and function of eukaryotic DNA polymerases, which are divided into at least 6 classes designated as α , β , γ , δ , ϵ and ζ . In the process of our investigations, the need for an inhibitor of each of the DNA polymerases has arisen. The roles of the DNA polymerases in vivo are still mostly obscure, and for the elucidation of the precise roles of each DNA polymerase, the use of the appropriate inhibitors would be quite useful. We therefore have established an assay method to detect DNA polymerase inhibitors, and we have used it to screen the exts. of many organisms for the inhibitors. In the screening, an important aspect was the type of natural product as a source of inhibitors. Not only several fungi, mushrooms and higher plants were found to produce such inhibitors, but also some algae were indicated to produce them. We found inhibitors from a basidiomycete, *Fomitella fraxinea*, well-known fatty acids and novel triterpenoids (fomitellic acids) (Fig. 1). We also found from a basidiomycete, *Ganoderma lucidum*, an ergosterol peroxide (Fig. 2), incisterols (Fig. 3) and two cerebrosides which were called the fruiting body-inducing substances (Fig. 4). Sulfolipids (Sulfoquinovosyl

diacylglycerol, SQDG) (Fig. 5), which is the strongest DNA polymerase inhibitors, were found in a fern, *Athyrium niponicum*, and sea alga, *Gigartina tenella*. The fern compds. were isolated and identified as previously identified sulfolipid compds. from a cyanobacteria which are AIDS-antiviral agents.

IT 9012-90-2, DNA polymerase

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(screening of natural products that selectively inhibit activity of eukaryotic DNA polymerases)

RN 9012-90-2 HCAPLUS

CN Nucleotidyltransferase, deoxyribonucleate (9CI) (CA INDEX NAME)

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FILE 'MEDLINE, BIOSIS' ENTERED AT 19:17:35 ON 19 JUL 2006

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L2	0 S	YOSHIDA AND YAMAZAKI AND SUGAWARA AND HATTA AND SHIMOJOE AND
L3	262 S	YAMAZAKI
L4	76 S	SUGAWARA
L5	33 S	HATTA
L6	0 S	L1 AND L3 AND L4
L7	146642 S	PSEUDOMONAS
L8	134455 S	ANTIVIRAL?
L9	344 S	L7 AND L8
L10	749840 S	PEPTIDE?
L11	30 S	L9 AND L10

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4986	Pseudomonas and antiviral	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/07/19 19:09
L2	1599	Pseudomonas same antiviral	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/07/19 19:09
L4	3616	cyclic adj peptide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/07/19 19:10
L5	29	l2 and l4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/07/19 19:11
L14	3400	hatta.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/07/19 19:13
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L16	141939	yoshida.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/07/19 19:14
L17	81869	yamazaki.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/07/19 19:14
L18	21491	sugawara.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/07/19 19:14
L19	4	shimojoe.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/07/19 19:15
L20	78839	masaki.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/07/19 19:15

EAST Search History

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